	Application No.	Applicant(s)
Notice of Allowability	10/605,482 Examiner	WU, GIN-DER Art Unit
•		
	Abdelali Serrou	2626
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>communication filed on 08/22/07</u> .		
2.  The allowed claim(s) is/are <u>1,4-14 and 17-20</u> .		
<ul> <li>3.</li></ul>		
1. Certified copies of the priority documents have been received.		
2. ☑ Certified copies of the priority documents have been received in Application No. <u>092119876</u> .		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application
Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• •
	Paper No./Mail Dat	e
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7. 🔲 Examiner's Amendr	nenvComment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	nt of Reasons for Allowance
or biological material	9.	

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## **DETAILED ACTION**

## Response to Amendment

1. In response to the office action mailed on 06/20/2007, applicant filed an amendment on 08/22/2007, amending Fig. 2, and claims 1, and 14, and canceling claims 2-3, and 15-16. The pending claims are 1, 4-14, and 17-20.

## Response to Arguments

2. Applicant's arguments, see communication, filed on 08/22/2007, with respect to claims 1, 4-14, and 17-20 have been fully considered and are persuasive. The rejection of claims 1, 4-14, and 17-20 has been withdrawn.

Based on applicant's arguments, and Terminal Disclaimer, filed on 08/22/2007, the current application is in condition for allowance.

## Allowable Subject Matter

3. Claims 1, 4-14, and 17-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Independent claims 1 and 14 teach a multiple step-sized levels adaptive method for time scaling to synthesize an  $S_3[n]$  signal from an  $S_1[n]$  signal and an  $S_2[n]$  signal, wherein  $S_1[n]$  signal has N elements while the  $S_2[n]$  signal has  $S_2[n]$  elements, and the  $S_3[n]$  signal

=the  $S_1[n]$  signal, where 0<=n<the maximum index;

= $(N_1-n)/(N_1$ -the maximum index)\*  $S_1$  [n]+(n-the maximum index)/( $N_1$ -the maximum index)\* $S_4$ [n-the maximum index], where the maximum index <=n<  $N_1$ ;

=  $S_4$  [n-the maximum index], where  $N_1 \le N_2$ -the maximum index;

= the  $S_1[n]$  signal, where 0<=n<the maximum index + a predetermined number;

= $(N_1-n)/(N_1-(the predetermined number + the maximum index))*S_1[n]+(n-(the predetermined number + the maximum index))/(N_1-(the predetermined number + the maximum index))*S_4[n-(the predetermined number + the maximum index)], where (the predetermined number + the maximum index)<=<math>n< N_1$ ;

= $S_4$ [n-(the predetermined number + the maximum index)], where  $N_1$ <=n<=( $N_2$ +the predetermined number + the maximum index).

The closest art is by:

Miyasaka (U.S 5,845,247), who teaches an apparatus that reproduces a plurality of band signals which have been subjected to a band division and includes a time-scale modifier which receives the plurality of band signals, time-axis compresses the respective band signals, and a synthesis filter bank for synthesizing the plurality of time-axis compressed band signals.

Koezuka (U.S 6,801,898) who teaches performing time-scale modification on digital signals.

Taniguchi et al. (U.S 6,484,137) who teach an audio reproducing a system which realizes time-scale modified audio with high/low speed and of high quality, with a simple construction based on time-scale compression/expansion at a prescribed speed rate which is completed by processing data in frames.

The prior art of record do not teach a non-linear method for time-scaling to synthesize a signal as recited in claims 3 and 16.

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Dependent claims 4-13, and 17-20 are allowed for the same reason, as being dependent

on allowed claims 1 and 14.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdelali Serrou whose telephone number is 571-272-7638. The

examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David R. Hudspeth can be reached on 571-272-7843. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A. Serrou

10/31/07

DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2000

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